Scissor Lift Submittal & Planning Sheet for SL Series

by DRAPER

U.S. Patent D395,909

Planning sheet submission required with your order or request for quotation. Please mark appropriate response to each numbered item (front and back)

Specifications—Scissor Lift SL

_____ video projector lifts for projectors weighing up to 100 lbs. White powder coat finish. Projector bolts onto operating pan, or mounts to pan with mounting bracket (by others). Electrically operated 110-120V AC, 60 Hz. UL recognized gearmotor, with metal chain drive system, to be lifetime lubricated. Projector to be suspended from steel pan supported by steel scissor arms and operated by two, 1/8" aircraft cables with 2000 foot/pounds tensile strength per cable.

Equipped with 3 sets of stabilizing scissors, positioned on the left, right, and rear sides. Also equipped with fail-safe inertial safety belt system and Cable Management System with projector power outlet. Factory set limit switches to automatically stop travel at store, show, and service positions. Single Station Control, standard, consists of one 3-button wall switch switch to lower lift from "stored" to "show " position, and one momentary key switch to lower lift to "service" position.

Optional Environmental Air Space Housing: Consists of suitable steel panels for use in return Environmental Air Space situations. Four sizes available.

Optional ceiling closure panel: Finished in white baked textured powder coat, shall descend smoothly with projector. Four sizes available.

Ceiling Finish Kit: Finished white. Trims ceiling opening when required. Consists of trim ring and closure panel. Four sizes available.

Factory-installed control cables available.

Please Note: The Scissor Lift SL should be specified in conjunction with a Draper motorized screen.

Optional Ceiling Access Door: Provides access to projector and lift when unit is installed above hard ceiling. Two styles: White painted finish or accepts ceiling tile.

Optional Universal Projector Mount: Fits most projectors up to 26 lbs. Tilt, yaw and pan adjustment.

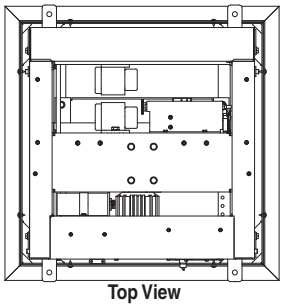
Downloadable 3-part specifications are available at www.draperinc.com.

U.S. Patent Number D395,909.

① ***Select one model based on the maximum exact distance you need the projector to descend from "store" position to "service" position.***

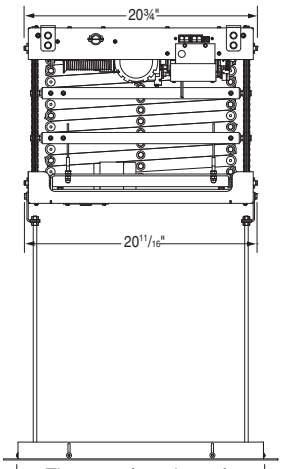
Scissor Lift—SL Series

	Quantity	Model	Table A Closed Height	Table A Extended Height
☐ 4 ft.—Model SL4	_____	SL4	8"	4'
☐ 6 ft.—Model SL6	_____	SL6	10"	6'
☐ 8 ft.—Model SL8	_____	SL8	12"	8'
☐ 10 ft.—Model SL10	_____	SL10	14"	10'
☐ 12 ft.—Model SL12	_____	SL12	16"	12'



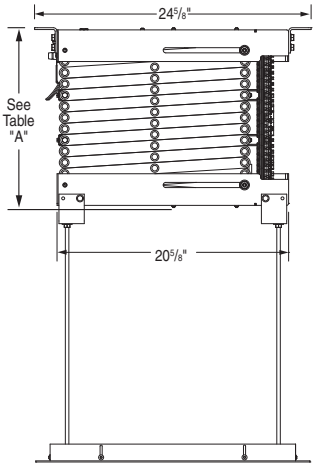
Top View

For drawings/dimensions with Environmental Air Space Housing, see page 3.



There are four sizes of closure. See page 2.

Front View



There are four sizes of closure. See page 2.

Side View

② **Standard, factory set "show" position is 36" below "store" position. "Show" position can be adjusted after installation. For "show" position of more or less than 36", list show position:** _____

(Continued on Page 2)

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DEALER NAME: _____

PROJECT NAME: _____

P.O. #: _____

DATE: _____

Scissor Lift Submittal & Planning Sheet for SL Series

③ *Select Optional Accessories*

- ☐ Optional Ceiling Access Door (2' x 2') to allow access above finished ceiling (highly recommended).
  - ☐ White Painted Finish ☐ Accepts Ceiling Tile
- ☐ Optional Environmental Air Space Housing: optional ceiling closure panel not included (see dimensional drawings below).
  - ☐ "B" ☐ "E" ☐ "SL" ☐ "U"
- ☐ Optional ceiling closure panel (see dimensional drawings on page 3).
  - ☐ "B" ☐ "E" ☐ "SL" ☐ "U"
- ☐ Optional ceiling finish kit: consists of ceiling closure panel and mating trim kit to finish ceiling opening (see dimensional drawings on page 3).
  - ☐ "B" ☐ "E" ☐ "SL" ☐ "U"
- ☐ Optional Universal Projector Mount (max. load 26 lbs).

④ *Select factory installed hookup for RGB, Video and Projector Control?*

☐ ***Yes*** ☐ ***No***

What type of connectors do you need on **Inputs (to Projector)?**

- ☐ BNC How Many? _____
- ☐ 15 Pin HD How Many? _____
- ☐ RCA How Many? _____
- ☐ S-Video How Many? _____
- ☐ RS232 (DB9) How Many? _____
- ☐ Cat 5 How Many? _____
- ☐ Cat 6 How Many? _____

What type of connectors do you need on **Outputs (up at top of Lift)?**

- ☐ BNC How Many? _____
- ☐ 15 Pin HD How Many? _____
- ☐ RCA How Many? _____
- ☐ S-Video How Many? _____
- ☐ RS232 (DB9) How Many? _____
- ☐ Cat 5 How Many? _____
- ☐ Cat 6 How Many? _____

⑤ *Select Voltage:*

- ☐ 110-120V
- ☐ 220-230V

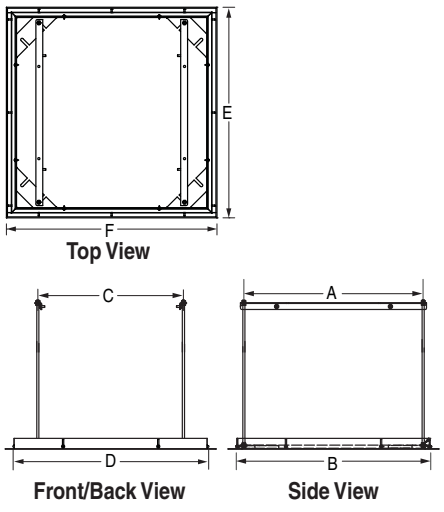
⑥ *Select Controls: This unit comes with one 3-Button Wall Switch and one Momentary Key Control. For other switching options, please select from below:*

- ☐ Replace 3-Button Wall Switch with optional second Momentary Key Control (SP-KSM)
- ☐ Optional Key Operated Power Supply Key Switch (On-off)
- ☐ Optional Wireless Remote Control (radio frequency transmitter & receiver) (Controls the "Show" position only)
- ☐ Optional Wireless Remote Control (infrared transmitter & receiver) (Controls the "Show" position only)
- ☐ Optional R2D7 RS232 interface for Serial Communication (Controls the "Show" position only)

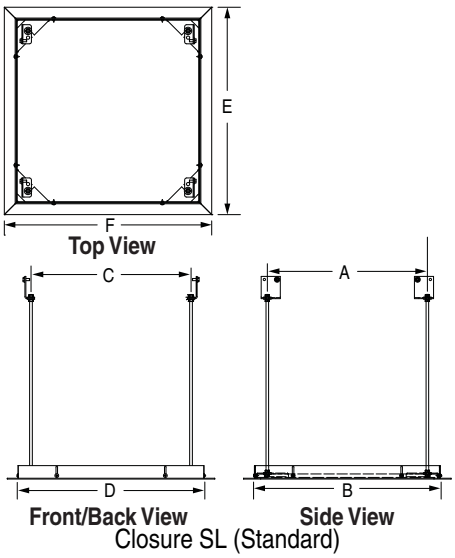
⑦ *Will this unit be controlled by other equipment?*

- ☐ No.
- ☐ Yes. What kind of equipment? _____

Optional Ceiling Closure



Closures B, E and U



Closure SL (Standard)

Optional Ceiling Closure Dimensions

Dim	Closure B	Closure E	Closure SL	Closure U
A	26"	25¾"	$18^{13}/_{16}$"	27"
B	$28^{3}/_{16}$"	$38^{7}/_{16}$"	$22^{1}/_{16}$"	$35^{1}/_{8}$"
C	$21^{1}/_{8}$"	25¾"	$18^{13}/_{16}$"	31¼"
D	$28^{3}/_{16}$"	$27^{15}/_{16}$"	$22^{1}/_{16}$"	$35^{1}/_{8}$"
E	$30^{9}/_{16}$"	$40^{13}/_{16}$"	$24^{3}/_{8}$"	$37^{11}/_{16}$"
F	$30^{9}/_{16}$"	$30^{5}/_{16}$"	$24^{3}/_{8}$"	$37^{11}/_{16}$"

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CUSTOMER CONTACT: _____

SIGNATURE: _____

Scissor Lift Submittal & Planning Sheet for SL Series

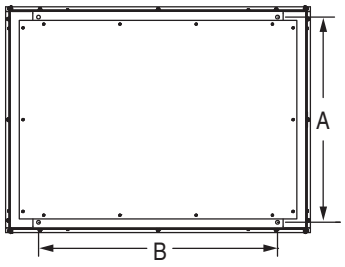
Scissor Lift SL—Dimensions & Data

	SL4	SL6	SL8	SL10	SL12
Height of lift in closed position[1]	8" (21 cm)	10" (26 cm)	12" (31 cm)	14" (36 cm)	16" (41 cm)
Max. down travel (to service position)	4' (122 cm)	6' (183 cm)	8' (244 cm)	10' (305 cm)	12' (366 cm)
Net Weight (lbs)	88 (40 kg)	96 (44 kg)	104 (48 kg)	111 (51 kg)	118 (54 kg)
Estimated Travel Time[1]	72 sec.	108 sec.	144 sec.	180 sec.	216 sec.

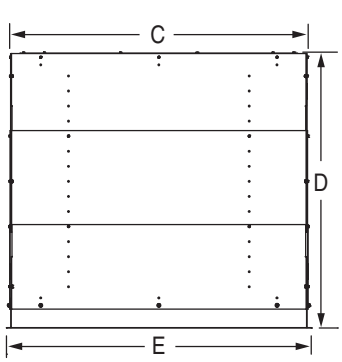
[1] Height of Scissor Lift in closed position only. Overall height of projector, plus optional mount, plus optional ceiling closure, plus optional Environmental Air Space Housing adds to overall height of equipment installed above ceiling.

[2] Based on travel speed of 90 inches per minute.

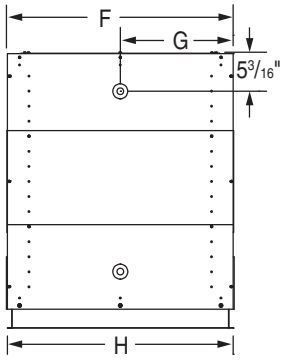
Optional Environmental Air Space Housing



Top View



Side View

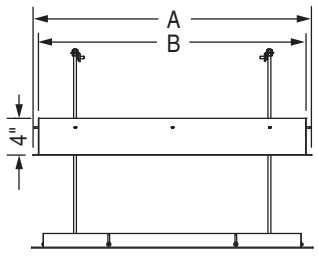


Front/BackView

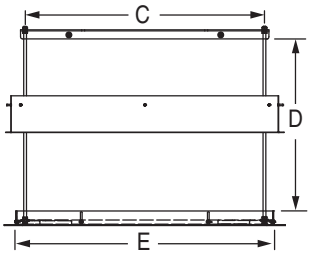
Environmental Air Space Housing Dimensions

Dim	B	E	SL	U
A	27½"	27¼"	18 9/16"	26½"
B	22 5/8"	31¾"	20 5/16"	34 5/8"
C	29 7/16"	39 11/16"	23 1/16"	36 9/16"
D	16"-36 5/8"	16"-36 5/8"	16"-36 5/8"	16"-36 5/8"
E	30¼"	40½"	24 1/16"	37 11/16"
F	30¼"	30"	23 7/8"	37 1/8"
G	15 1/8"	15"	11 5/16"	18 11/16"
H	30¼"	30"	24 1/16"	37 11/16"

Optional Ceiling Trim Kit Dims



Side View



Front/Back View

Ceiling Trim Kit Dimensions

Dim	B	E	SL	U
A	30¼"	40½"	24 1/16"	37 3/8"
B	29 1/8"	39 3/8"	22 15/16"	36¼"
C	26"	25¾"	18 13/16"	27"
D	18 11/16"	18 9/16"	19 5/8"	18 9/16"
E	28¼"	27 15/16"	22 1/16"	35 1/8"

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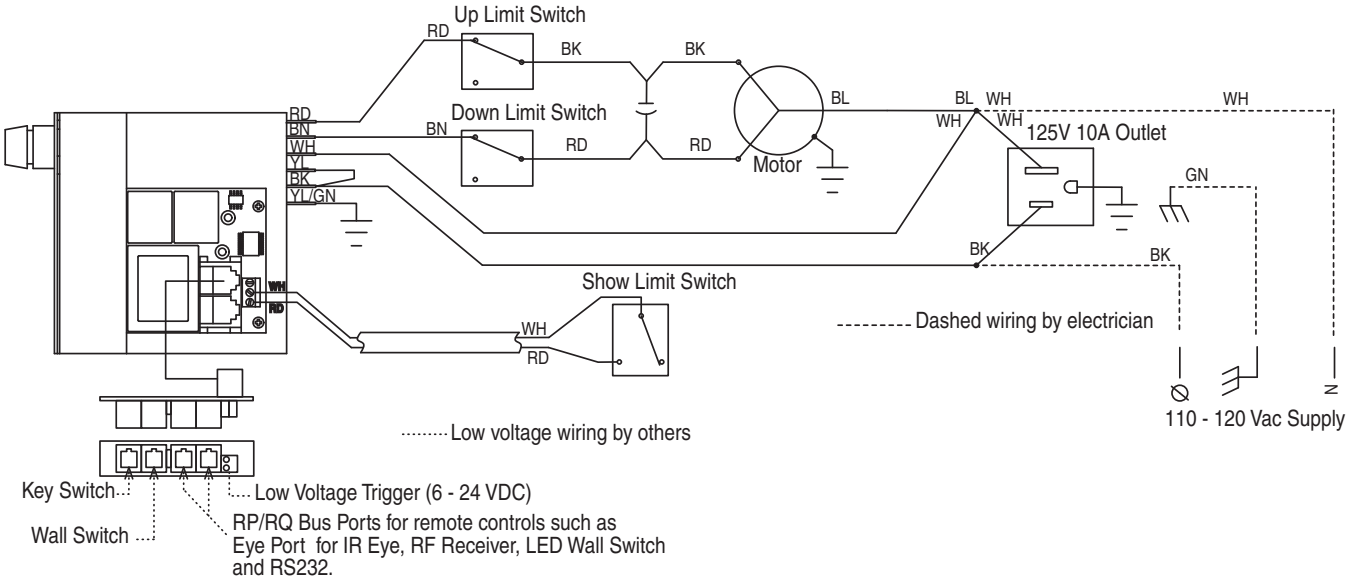
Scissor Lift Submittal & Planning Sheet for SL Series

Wiring Diagram



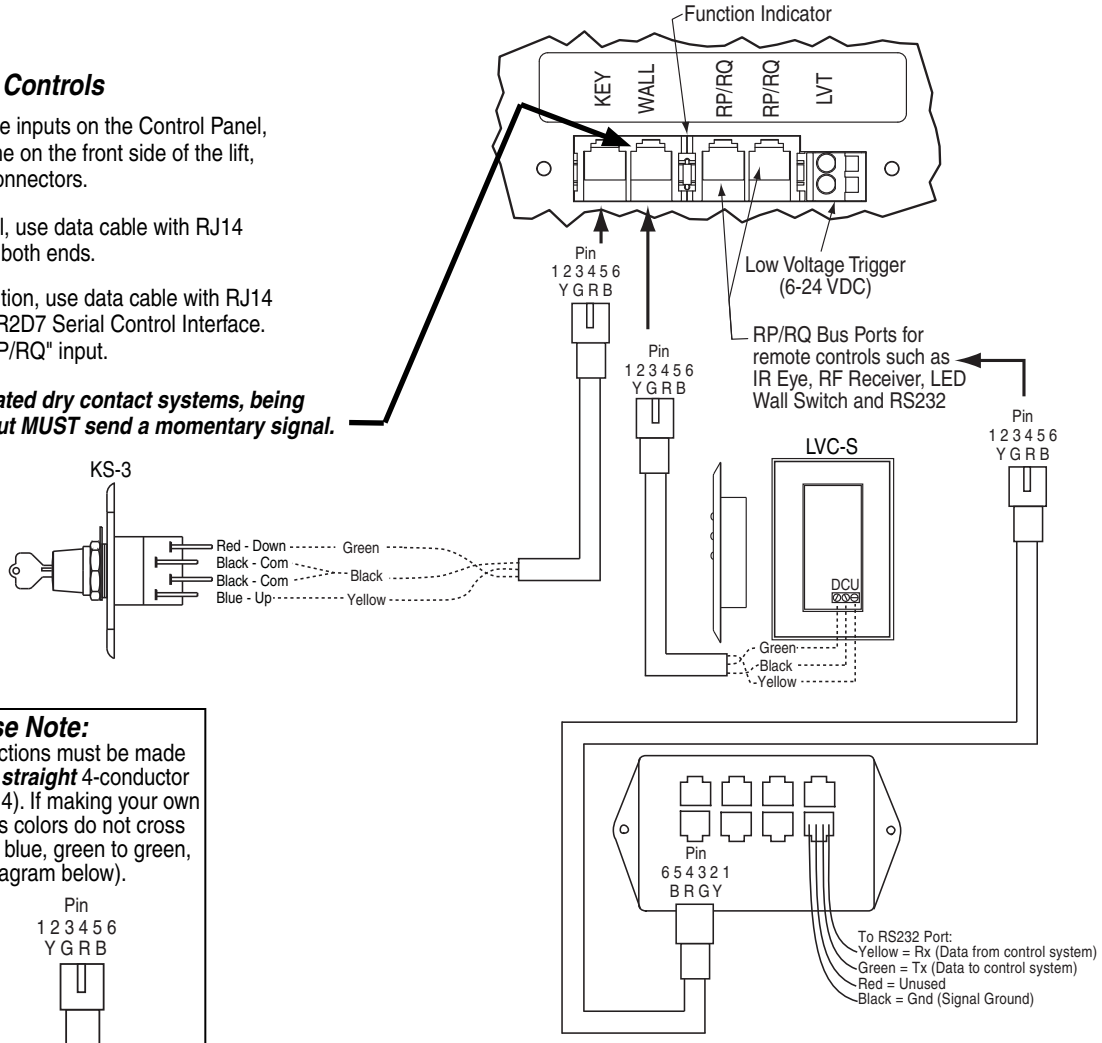
Connecting Controls

Controls plug into the data cable inputs on the Control Panel, which is located on the Top Frame on the front side of the lift, using RJ14 connectors.

For IR or RF Remote Control, use data cable with RJ14 connectors on both ends.

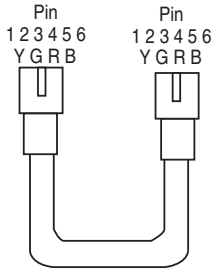
For serial control of "Show" position, use data cable with RJ14 connectors on both ends and an R2D7 Serial Control Interface. Plug into the "RP/RQ" input.

Any control, including automated dry contact systems, being connected to the wall switch input MUST send a momentary signal.



Please Note:

Data cable connections must be made using ***electrically straight*** 4-conductor modular cable (RJ14). If making your own cables, this means colors do not cross over: blue leads to blue, green to green, etc. (see diagram below).



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CUSTOMER CONTACT: _____

SIGNATURE: _____

Scissor Lift Submittal & Planning Sheet for SLX Series

by DRAPER

U.S. Patent D395,909

Planning sheet submission required with your order or request for quotation. Please mark appropriate response to each numbered item (front and back)

Specifications—Scissor Lift SLX

_____ video projector lifts for projectors weighing up to 350 lbs. White powder coat finish. Projector bolts onto operating pan, or mounts to pan with mounting bracket (by others). Electrically operated 110-120V AC, 60 Hz. UL recognized gearmotor, with metal chain drive system, to be lifetime lubricated. Projector to be suspended from steel pan supported by steel scissor arms and operated by two, 3/16" aircraft cables with 4200 foot/pounds tensile strength per cable.

Equipped with 3 sets of stabilizing scissors, positioned on the left, right, and rear sides. Also equipped with fail-safe inertial safety belt system and Cable Management System with projector power cord. Factory set limit switches to automatically stop travel at store, show, and service positions. Single Station Control, standard, consists of one 3-button wall switch switch to lower lift from "stored" to "show " position, and one momentary key switch to lower lift to "service" position.

Optional Environmental Air Space Housing: Consists of suitable painted steel panels for use in return air plenum situations.

Optional ceiling closure panel: Finished in white baked textured powder coat, shall descend smoothly with projector.

Ceiling Finish Kit: Finished white. Trims ceiling opening when required. Consists of trim ring and closure panel.

Factory-installed control cables available.

Please Note: The Scissor Lift SLX should be specified in conjunction with a Draper motorized screen.

Optional Ceiling Access Door: Provides access to projector and lift when unit is installed above hard ceiling. Two styles: White painted finish or accepts ceiling tile.

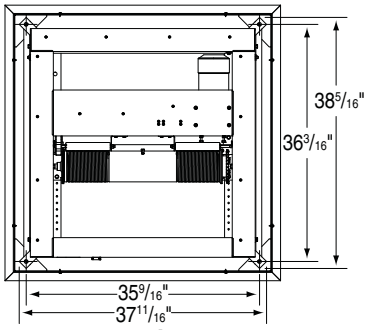
Downloadable 3-part specifications are available at www.draperinc.com.

U.S. Patent Number D395,909.

① ***Select one model based on the maximum exact distance you need the projector to descend from "store" position to "service" position.***

Scissor Lift—SLX Series

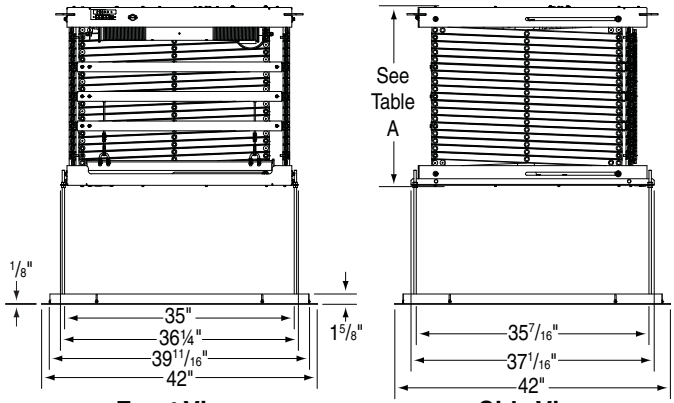
	Quantity	Model	Table A Closed Height	Extended Height
☐ 10 ft.—Model SLX10	_____	SLX10	14 1/16"	10'7"
☐ 14 ft.—Model SLX14	_____	SLX14	16 5/16"	14'2"
☐ 17 ft.—Model SLX17	_____	SLX17	18 9/16"	17'8"
☐ 21 ft.—Model SLX21	_____	SLX21	20 13/16"	21'3"
☐ 24 ft.—Model SLX24	_____	SLX24	23 1/16"	24'9"
☐ 28 ft.—Model SLX28	_____	SLX28	25 5/16"	28'5"
☐ 32 ft.—Model SLX32	_____	SLX32	27 9/16"	32'1"



Top View

For drawings/dims with Environmental Air Space Housing, see page 3.

② **Standard, factory set "show" position is 36" below "store" position. "Show" position can be adjusted after installation. For "show" position of more or less than 36", list show position:** _____



Front View | Side View

DRAPER SALESPERSON: _____

CUSTOMER CONTACT: _____

SIGNATURE: _____

(Continued on Page 2)

DEALER NAME: _____

PROJECT NAME: _____

P.O. #: _____

DATE: _____

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Scissor Lift Submittal & Planning Sheet for SLX Series

③ *Select Optional Accessories*

- ☐ Optional Ceiling Access Door (2 x 2) to allow access above finished ceiling (highly recommended)
  - ☐ White Painted Finish ☐ Accepts Ceiling Tile
- ☐ Optional Environmental Air Space Housing: optional ceiling closure panel not included.
  B) If you selected the Environmental Air Space Housing option please provide the following information:
  Projector Size H x W x L: _____ Bracket height: _____ Available space above ceiling: _____
- ☐ Optional ceiling closure panel.
- ☐ Optional ceiling finish kit: consists of ceiling closure panel and mating trim kit to finish ceiling opening.
- ☐ Optional Universal Projector Mount (max. load 26 lbs.).

④ *Select factory installed hookup for RGB, Video and Projector Control?*

☐ ***Yes*** ☐ ***No***

What type of connectors do you need on **Inputs (to Projector)?**

- ☐ BNC How Many? _____
- ☐ 15 Pin HD How Many? _____
- ☐ RCA How Many? _____
- ☐ S-Video How Many? _____
- ☐ RS232 (DB9) How Many? _____
- ☐ Cat 5 How Many? _____
- ☐ Cat 6 How Many? _____

What type of connectors do you need on **Outputs (up at top of Lift)?**

- ☐ BNC How Many? _____
- ☐ 15 Pin HD How Many? _____
- ☐ RCA How Many? _____
- ☐ S-Video How Many? _____
- ☐ RS232 (DB9) How Many? _____
- ☐ Cat 5 How Many? _____
- ☐ Cat 6 How Many? _____

⑤ *Select Voltage:*

- ☐ 110-120V
- ☐ 220-230V

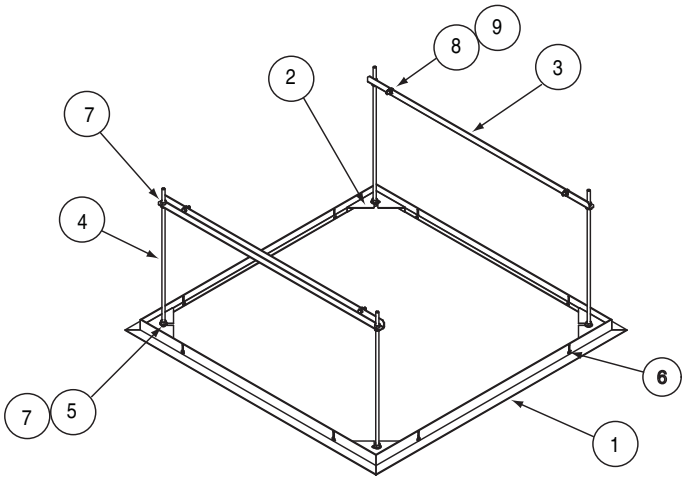
⑥ *Select Controls: This unit comes with one 3-Button Wall Switch and one Momentary Key Control. For other switching options, please select from below:*

- ☐ Replace 3-Button Wall Switch with optional second Momentary Key Control (SP-KSM)
- ☐ Optional Key Operated Power Supply Key Switch (On-off)
- ☐ Optional Wireless Remote Control (radio frequency transmitter & receiver) (Controls the "Show" position only)
- ☐ Optional Wireless Remote Control (infrared transmitter & receiver) (Controls the "Show" position only)
- ☐ Optional R2D7 RS232 interface for Serial Communication (Controls the "Show" position only)

⑦ *Will this unit be controlled by other equipment?*

- ☐ No.
- ☐ Yes. What kind of equipment? _____

Optional Ceiling Closure



Item	Qty	Part Number	Description
①	1	C028.546	Frame, SLX Closure Trim
②	1	C044.181.07SA	Panel, SLX Assembled Closure
③	2	C002.845.07SA	Bracket, SLX Closure
④	4	C077.035.49	Rod 3/8"-16 x 17 7/8" L Threaded , Zinc
⑤	8	C013.050	Washer .375 I.D. x .875" O.D. x .064" TK GRD 2 Zinc Flat
⑥	8	C020.082	Screw, 10-16 X ½" 6 Lobe Truss Head AB E-White
⑦	16	C018.027	Nut, 3/8"-16 Hex GRD 2 NSF
⑧	4	C020.322	Screw, 5/16"-18 x ¾" Long Grade 5 HH Zinc
⑨	4	C018.045	Nut, 5/16"-18 Zinc Hex KEPS

SLX Scissor Lift—Dimensions & Data

	SLX10	SLX14	SLX17	SLX21	SLX24	SLX28	SLX32
Height of lift in closed position[1]	14 1/16" (36 cm)	16 5/16" (41 cm)	18 9/16" (47 cm)	20 13/16" (53 cm)	23 1/16" (59 cm)	25 5/16" (64 cm)	27 9/16" (70 cm)
Max. down travel (to service position)	10'7" (323 cm)	14'2" (432 cm)	17'8" (538 cm)	21'3" (648 cm)	24'9" (754 cm)	28'5" (866 cm)	32'1" (978 cm)
Net weight—lbs.	216	230	260	275	289	303	318
Approx. travel time[2] (to service position)	1 min. 43 sec.	2 min. 24 sec.	2 min. 55 sec.	3 min. 36 sec.	4 min. 7 sec.	4 min. 48 sec.	5 min. 30 sec.

[1] Height of Scissor Lift in closed position only. Overall height of projector, plus optional mount, plus optional ceiling closure, plus optional Environmental Air Space Housing adds to overall height of equipment installed above ceiling.

[2] Up direction with full load of 350 lbs. "Down" travel time or lighter loads will have shorter travel times.

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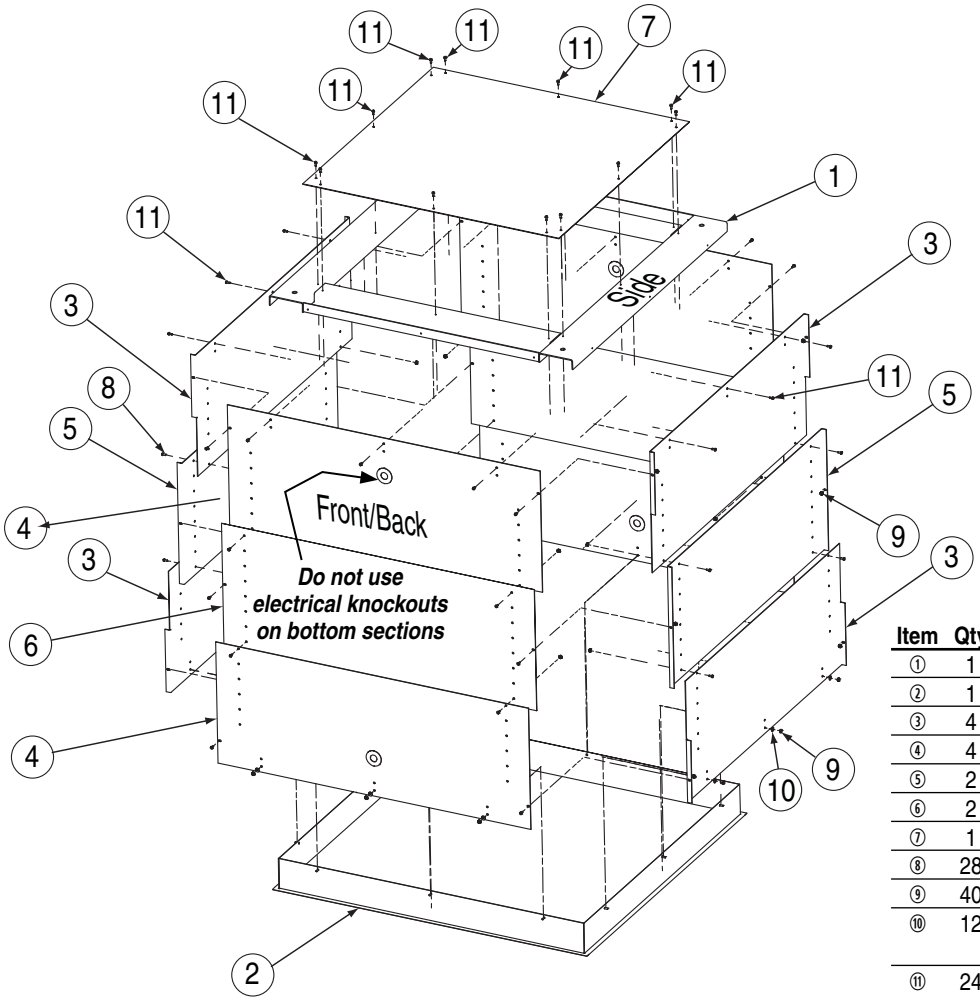
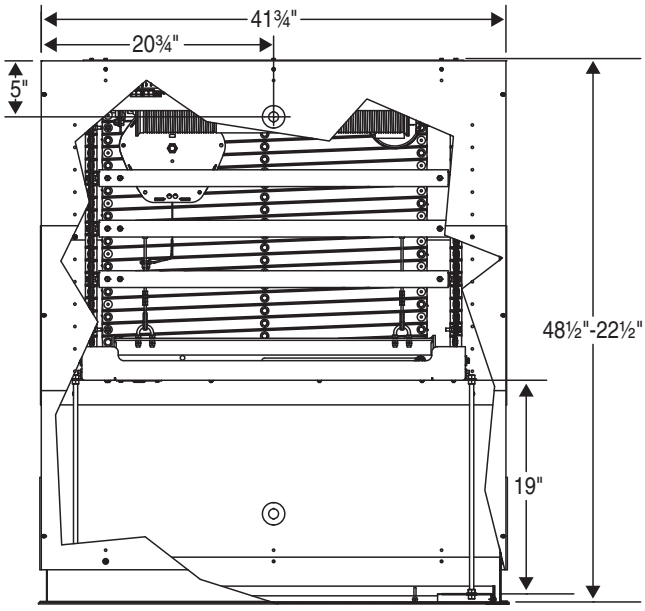
Scissor Lift Submittal & Planning Sheet for SLX Series

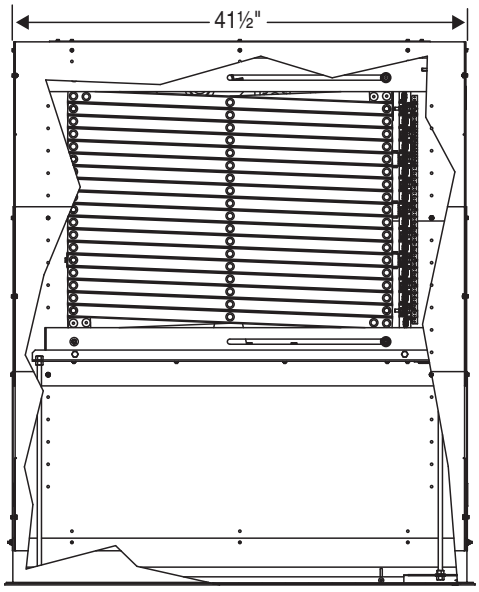
Optional Environmental Air Space Housing



Item	Qty	Part Number	Description
①	1	C028.544.02SA	Frame, SLX Plenum
②	1	C028.545.07SA	Frame, SLX Trim Ring
③	4	C044.178SA	Panel, SLX Plenum Side
④	4	C044.180SA	Panel, SLX Plenum End
⑤	2	C044.179SA	Panel, SLX Middle End
⑥	2	C044.177SA	Panel, SLX Plenum Middle Side
⑦	1	C095.123SA	Cover, SLX Plenum
⑧	28	C020.325	Screw, 8-32 x 3/8" Type 1 HWH
⑨	40	C018.051	Nut #8-32 Zinc Hex KEPS
⑩	12	C013.070	Washer, .188 I.D. x .5 O.D. x .07" TK Nylon Flat
⑪	24	C020.112	Screw, 8-32 x 3/8" Type F HWH



Front/Back View



Side View

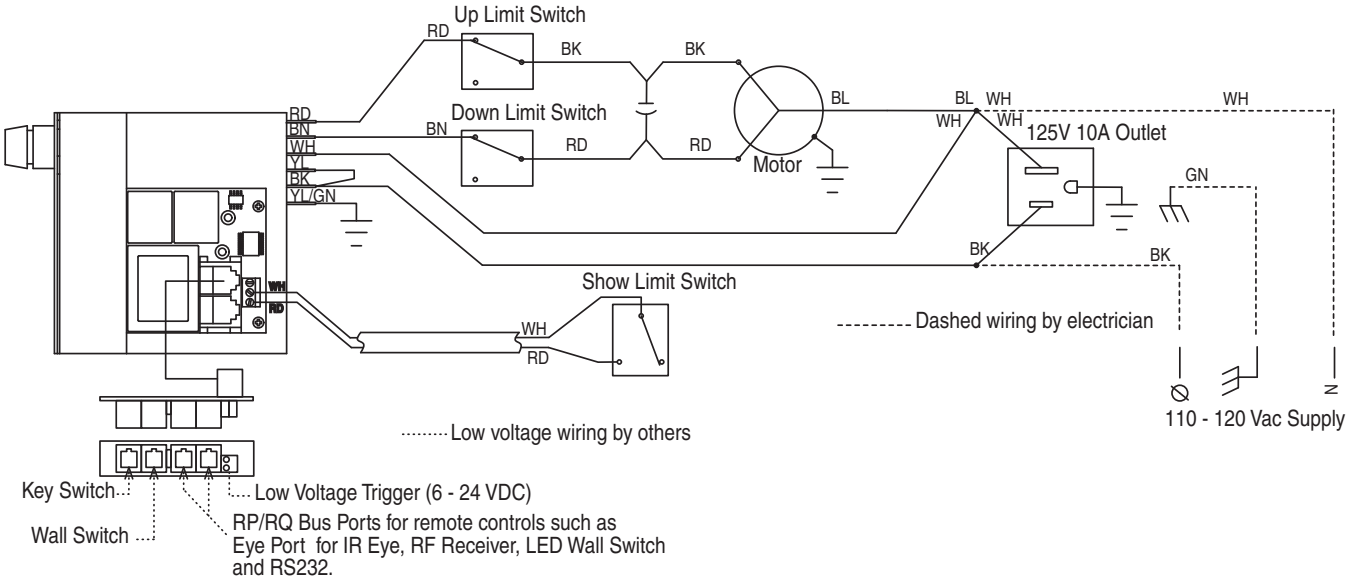
DRAPER SALESPERSON: _____

CUSTOMER CONTACT: _____

 SIGNATURE: _____

Scissor Lift Submittal & Planning Sheet for SLX Series

Wiring Diagram

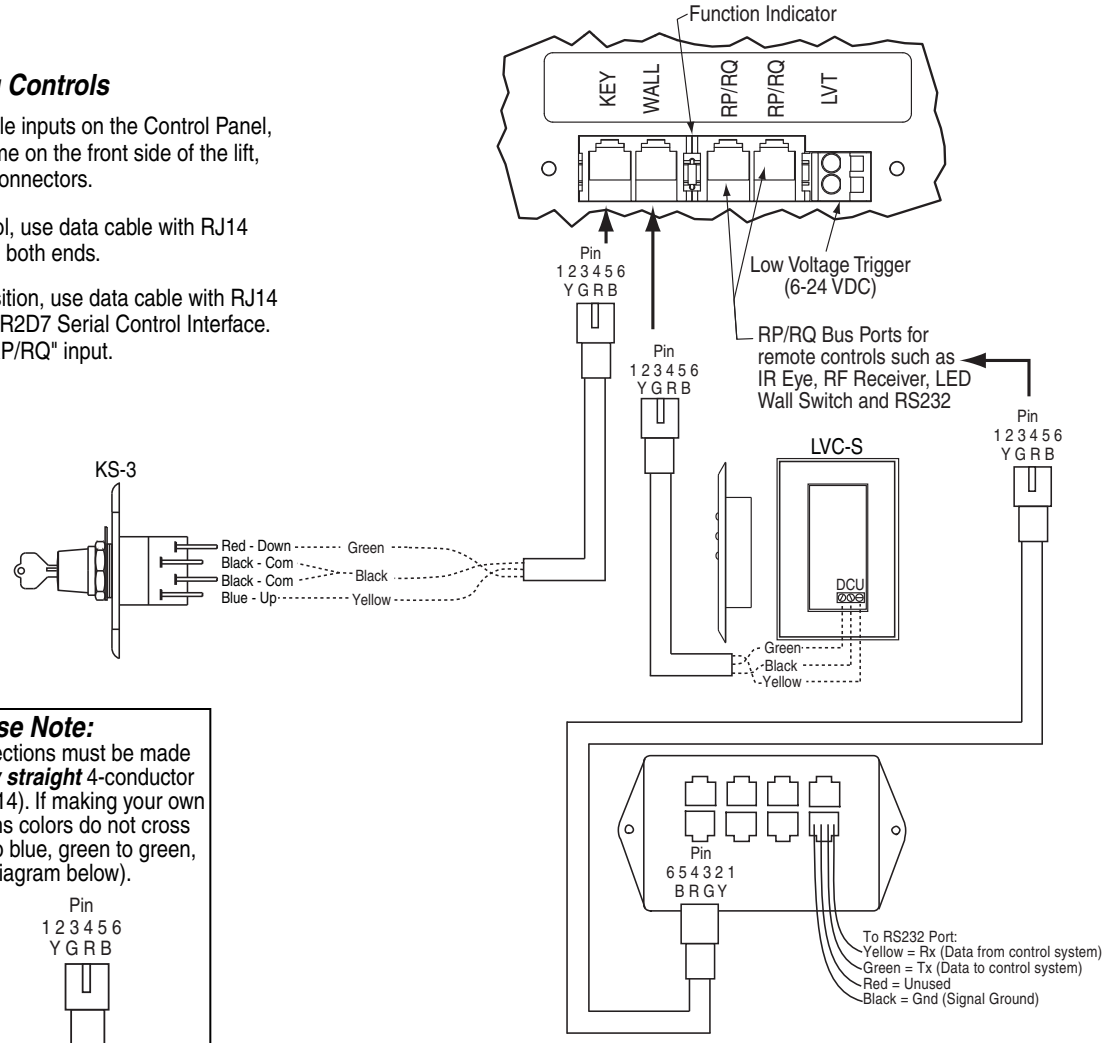


Connecting Controls

Controls plug into the data cable inputs on the Control Panel, which is located on the Top Frame on the front side of the lift, using RJ14 connectors.

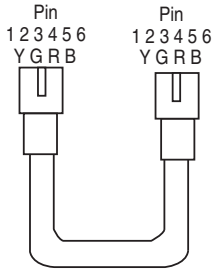
For IR or RF Remote Control, use data cable with RJ14 connectors on both ends.

For serial control of "Show" position, use data cable with RJ14 connectors on both ends and an R2D7 Serial Control Interface. Plug into the "RP/RQ" input.



Please Note:

Data cable connections must be made using ***electrically straight*** 4-conductor modular cable (RJ14). If making your own cables, this means colors do not cross over: blue leads to blue, green to green, etc. (see diagram below).



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